



PCT09

## RAW SEQUENCE LISTING

DATE: 05/14/2002

PATENT APPLICATION: US/09/937,636

TIME: 16:28:20

Input Set : A:\X-12652 Seqlist.txt

Output Set: N:\CRF3\05142002\I937636.raw

ENTERED

3 <110> APPLICANT: Eric Wen Su  
 4 Jian-Jun Wei  
 6 <120> TITLE OF INVENTION: hOB-BP2h COMPOSITIONS, METHODS AND USES THEREOF  
 8 <130> FILE REFERENCE: X12652  
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/937,636  
 C--> 11 <141> CURRENT FILING DATE: 2002-03-05  
 13 <160> NUMBER OF SEQ ID NOS: 5  
 15 <170> SOFTWARE: PatentIn Ver. 2.1  
 17 <210> SEQ ID NO: 1  
 18 <211> LENGTH: 1536  
 19 <212> TYPE: DNA  
 20 <213> ORGANISM: Homo sapiens  
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 25 tgctctttct cctacccccg acaggactgg acaggggtcta cccagctta tggctactgg 180  
 26 ttcaaagcag tgactgagac aaccaagggg gtcctgttgg ccacaaacca ccagagtcga 240  
 27 gaggtggaaa tgagcaccgg gggccgattc cagctcactg gggatcccg ccaaggggaac 300  
 28 tgctccttgg tgatcagaga cgcgcagatg caggatgagt cacagtactt ctttcgggtg 360  
 29 gagagaggaa gctatgtgag atataatttc atgaacgatg ggttctttct aaaagtaaca 420  
 30 gccctgactc agaagcctga tgtctacatc cccgagaccc tggagcccg ggcagccggtg 480  
 31 acgggtcatct gtgtgtttaa ctgggccttt gaggaatgtc caccctcttc tttctcctgg 540  
 32 acggggggctg cctctctctc ccaaggaacc aaaccaacga cctccactt ctcaagtgtc 600  
 33 agcttcacgc ccagacccca ggaccacgac accgacctca cctgccatgt ggacttctcc 660  
 34 agaaagggtg tgagcgcaca gaggaccgtc cgactccgtg tggcctatgc cccagagac 720  
 35 ctgtttatca gcatttcacg tgacaacacg ccagatcctc cagagaacct gagagtgatg 780  
 36 gtttcccaag caaacaggac agtccctggaa aaccttggga acggcacgtc tctccagta 840  
 37 ctggagggcc aaagcctgtg cctgggtctgt gtcacacaca gcagccccc agccaggctg 900  
 38 agctggaccc agaggggaca ggttctgagc cctccacgc cctcagaccc cgggggtcctg 960  
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 40 ctgggctccc agcacgtctc tctcagcctc tccgtgact ataagaagg actcatctca 1080  
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 46 ttcccagaac ccaaatcatc cactcaagcc ccagaatccc aggagagcca agaggagctc 1440  
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 51 <210> SEQ ID NO: 2  
 52 <211> LENGTH: 1917  
 53 <212> TYPE: DNA  
 54 <213> ORGANISM: Homo sapiens

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## 56 &lt;400&gt; SEQUENCE: 2

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57 atgctactgc cactgctgct gtcctcgctg ctgggcgggt cccaggctat ggatgggaga 60
58 ttctggatac gagtgcagga gtcagtgatg gtgccggagg gcctgtgcat ctctgtgccc 120
59 tgctctttct cctacccccg acaagactgg acagggtcta cccagctta tggctactgg 180
60 ttcaaagcag tgactgagac aaccaagggg gtcctgtggt ccacaaacca ccagagtoga 240
61 gaggtggaaa tgagcaccog gggccgattc cagctcactg gggatcccg ccaaggggaaac 300
62 tgctccttgg tgatcagaga cgcgcagatg caggatgagt cacagtactt ctttcgggtg 360
63 gagagaggaa gctatgtgag atataatttc atgaacgatg ggttctttct aaaagtaaca 420
64 gtgctcagct tcacgccccg accccaggag cacaacaccg acctcacctg ccatgtggac 480
65 ttctccagaa aggtgtgtag cgcacagagg accgtccgac tccgtgtggc ctatgcccc 540
66 agagaccttg ttatcagcat ttacgtgac aacacgccag ccctggagcc ccagccccag 600
67 ggaaatgtcc catacctgga agcccaaaaa ggccagttcc tgcggctcct ctgtgctgct 660
68 gacagccagc cccctgccac actgagctgg gtcctgcaga acagagtcct ctcctcgtcc 720
69 catccctggg gccctagacc cctggggctg gagctgcccg gggggaaggc tggggattca 780
70 gggcgctaca cctgccgagc ggagaacagg cttggctccc agcagcgagc cctggacctc 840
71 tctgtgcagt atcctccaga gaacctgaga gtgatggttt cccaagcaaa caggacagtc 900
72 ctggaaaacc ttgggaacgg cagctctctc ccagtactgg agggccaaag cctgtgcctg 960
73 gtctgtgtca cacacagcag cccccagcc aggtcagct ggacccagag gggacagggt 1020
74 ctgagccctt cccagccctc agaccccggg gtccctggagc tgcctcgggt tcaagtggag 1080
75 cacgaaggag agttcacctg ccacgctcgg caccactgg gctcccagca cgtctctctc 1140
76 agcctctccg tgcactactc cccgaagctg ctgggcccct cctgctcctg ggaggctgag 1200
77 ggtctgcact gcagctgctc ctcccaggcc agcccgccc cctctctgcg ctggtggctt 1260
78 ggggaggagc tgctggaggg gaacagcagc caggactcct tcgaggtcac cccagctca 1320
79 gccgggccct gggccaacag ctccctgagc ctccatggag ggtcagctc cggcctcagg 1380
80 ctccgctgtg aggcctggaa cgtccatggg gccagagtg gatccatcct gcagctgcca 1440
81 gataagaagg gactcatctc aacggcattc tccaacggag cgtttctggg aatcggcatc 1500
82 acggctcttc ttttctctg cctggccctg atcatcatga agattctacc gaagagacgg 1560
83 actcagacag aaaccccag gcccaggttc tcccggcaca gcagatcct ggattacac 1620
84 aatgtggtcc cgacggctgg cccctggct cagaagcgga atcagaaagc cacacaaac 1680
85 agtccctcga cccctcttcc accaggtgct ccctccccag aatcaaagaa gaaccagaaa 1740
86 aagcagtatc agttgccag ttcccagaa cccaaatcat ccaactcaagc cccagaatcc 1800
87 caggagagcc aagaggagct ccattatgcc acgtcaact tcccaggcgt cagacccagg 1860
88 cctgaggccc ggatgcccga gggcaccag gcggattatg cagaagtcaa gttccaa 1917

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91 &lt;210&gt; SEQ ID NO: 3

92 &lt;211&gt; LENGTH: 512

93 &lt;212&gt; TYPE: PRT

94 &lt;213&gt; ORGANISM: Homo sapiens

## 96 &lt;400&gt; SEQUENCE: 3

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97 Met Leu Leu Pro Leu Leu Leu Ser Ser Leu Leu Gly Gly Ser Gln Ala
98 1 5 10 15
100 Met Asp Gly Arg Phe Trp Ile Arg Val Gln Glu Ser Val Met Val Pro
101 20 25 30
103 Glu Gly Leu Cys Ile Ser Val Pro Cys Ser Phe Ser Tyr Pro Arg Gln
104 35 40 45
106 Asp Trp Thr Gly Ser Thr Pro Ala Tyr Gly Tyr Trp Phe Lys Ala Val
107 50 55 60
109 Thr Glu Thr Thr Lys Gly Ala Pro Val Ala Thr Asn His Gln Ser Arg
110 65 70 75 80
112 Glu Val Glu Met Ser Thr Arg Gly Arg Phe Gln Leu Thr Gly Asp Pro

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113				85				90				95				
115	Ala	Lys	Gly	Asn	Cys	Ser	Leu	Val	Ile	Arg	Asp	Ala	Gln	Met	Gln	Asp
116				100					105				110			
118	Glu	Ser	Gln	Tyr	Phe	Phe	Arg	Val	Glu	Arg	Gly	Ser	Tyr	Val	Arg	Tyr
119			115					120					125			
121	Asn	Phe	Met	Asn	Asp	Gly	Phe	Phe	Leu	Lys	Val	Thr	Ala	Leu	Thr	Gln
122		130				135						140				
124	Lys	Pro	Asp	Val	Tyr	Ile	Pro	Glu	Thr	Leu	Glu	Pro	Gly	Gln	Pro	Val
125	145					150					155				160	
127	Thr	Val	Ile	Cys	Val	Phe	Asn	Trp	Ala	Phe	Glu	Glu	Cys	Pro	Pro	Pro
128				165					170						175	
130	Ser	Phe	Ser	Trp	Thr	Gly	Ala	Ala	Leu	Ser	Ser	Gln	Gly	Thr	Lys	Pro
131				180					185						190	
133	Thr	Thr	Ser	His	Phe	Ser	Val	Leu	Ser	Phe	Thr	Pro	Arg	Pro	Gln	Asp
134			195					200					205			
136	His	Asp	Thr	Asp	Leu	Thr	Cys	His	Val	Asp	Phe	Ser	Arg	Lys	Gly	Val
137		210					215					220				
139	Ser	Ala	Gln	Arg	Thr	Val	Arg	Leu	Arg	Val	Ala	Tyr	Ala	Pro	Arg	Asp
140	225					230					235				240	
142	Leu	Val	Ile	Ser	Ile	Ser	Arg	Asp	Asn	Thr	Pro	Asp	Pro	Pro	Glu	Asn
143				245					250						255	
145	Leu	Arg	Val	Met	Val	Ser	Gln	Ala	Asn	Arg	Thr	Val	Leu	Glu	Asn	Leu
146			260						265					270		
148	Gly	Asn	Gly	Thr	Ser	Leu	Pro	Val	Leu	Glu	Gly	Gln	Ser	Leu	Cys	Leu
149		275					280						285			
151	Val	Cys	Val	Thr	His	Ser	Ser	Pro	Pro	Ala	Arg	Leu	Ser	Trp	Thr	Gln
152		290					295					300				
154	Arg	Gly	Gln	Val	Leu	Ser	Pro	Ser	Gln	Pro	Ser	Asp	Pro	Gly	Val	Leu
155	305					310					315				320	
157	Glu	Leu	Pro	Arg	Val	Gln	Val	Glu	His	Glu	Gly	Glu	Phe	Thr	Cys	His
158				325					330						335	
160	Ala	Arg	His	Pro	Leu	Gly	Ser	Gln	His	Val	Ser	Leu	Ser	Leu	Ser	Val
161				340					345					350		
163	His	Tyr	Lys	Lys	Gly	Leu	Ile	Ser	Thr	Ala	Phe	Ser	Asn	Gly	Ala	Phe
164			355					360					365			
166	Leu	Gly	Ile	Gly	Ile	Thr	Ala	Leu	Leu	Phe	Leu	Cys	Leu	Ala	Leu	Ile
167		370				375						380				
169	Ile	Met	Lys	Ile	Leu	Pro	Lys	Arg	Arg	Thr	Gln	Thr	Glu	Thr	Pro	Arg
170	385					390					395				400	
172	Pro	Arg	Phe	Ser	Arg	His	Ser	Thr	Ile	Leu	Asp	Tyr	Ile	Asn	Val	Val
173				405					410						415	
175	Pro	Thr	Ala	Gly	Pro	Leu	Ala	Gln	Lys	Arg	Asn	Gln	Lys	Ala	Thr	Pro
176			420						425					430		
178	Asn	Ser	Pro	Arg	Thr	Pro	Leu	Pro	Gly	Ala	Pro	Ser	Pro	Glu	Ser	
179			435					440				445				
181	Lys	Lys	Asn	Gln	Lys	Lys	Gln	Tyr	Gln	Leu	Pro	Ser	Phe	Pro	Glu	Pro
182		450					455					460				
184	Lys	Ser	Ser	Thr	Gln	Ala	Pro	Glu	Ser	Gln	Glu	Ser	Gln	Glu	Glu	Leu
185	465					470					475				480	

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187 His Tyr Ala Thr Leu Asn Phe Pro Gly Val Arg Pro Arg Pro Glu Ala
188           485           490           495
190 Arg Met Pro Lys Gly Thr Gln Ala Asp Tyr Ala Glu Val Lys Phe Gln
191           500           505           510
197 <210> SEQ ID NO: 4
198 <211> LENGTH: 639
199 <212> TYPE: PRT
200 <213> ORGANISM: Homo sapiens
202 <400> SEQUENCE: 4
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206 Met Asp Gly Arg Phe Trp Ile Arg Val Gln Glu Ser Val Met Val Pro
207           20           25           30
209 Glu Gly Leu Cys Ile Ser Val Pro Cys Ser Phe Ser Tyr Pro Arg Gln
210           35           40           45
212 Asp Trp Thr Gly Ser Thr Pro Ala Tyr Gly Tyr Trp Phe Lys Ala Val
213           50           55           60
215 Thr Glu Thr Thr Lys Gly Ala Pro Val Ala Thr Asn His Gln Ser Arg
216   65           70           75           80
218 Glu Val Glu Met Ser Thr Arg Gly Arg Phe Gln Leu Thr Gly Asp Pro
219           85           90           95
221 Ala Lys Gly Asn Cys Ser Leu Val Ile Arg Asp Ala Gln Met Gln Asp
222           100          105          110
224 Glu Ser Gln Tyr Phe Phe Arg Val Glu Arg Gly Ser Tyr Val Arg Tyr
225           115          120          125
227 Asn Phe Met Asn Asp Gly Phe Phe Leu Lys Val Thr Val Leu Ser Phe
228           130          135          140
230 Thr Pro Arg Pro Gln Asp His Asn Thr Asp Leu Thr Cys His Val Asp
231 145           150          155          160
233 Phe Ser Arg Lys Gly Val Ser Ala Gln Arg Thr Val Arg Leu Arg Val
234           165          170          175
236 Ala Tyr Ala Pro Arg Asp Leu Val Ile Ser Ile Ser Arg Asp Asn Thr
237           180          185          190
239 Pro Ala Leu Glu Pro Gln Pro Gln Gly Asn Val Pro Tyr Leu Glu Ala
240           195          200          205
242 Gln Lys Gly Gln Phe Leu Arg Leu Leu Cys Ala Ala Asp Ser Gln Pro
243           210          215          220
245 Pro Ala Thr Leu Ser Trp Val Leu Gln Asn Arg Val Leu Ser Ser Ser
246 225           230          235          240
248 His Pro Trp Gly Pro Arg Pro Leu Gly Leu Glu Leu Pro Gly Val Lys
249           245          250          255
251 Ala Gly Asp Ser Gly Arg Tyr Thr Cys Arg Ala Glu Asn Arg Leu Gly
252           260          265          270
254 Ser Gln Gln Arg Ala Leu Asp Leu Ser Val Gln Tyr Pro Pro Glu Asn
255           275          280          285
257 Leu Arg Val Met Val Ser Gln Ala Asn Arg Thr Val Leu Glu Asn Leu
258           290          295          300
260 Gly Asn Gly Thr Ser Leu Pro Val Leu Glu Gly Gln Ser Leu Cys Leu
261 305           310          315          320

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263 Val Cys Val Thr His Ser Ser Pro Pro Ala Arg Leu Ser Trp Thr Gln
264           325           330           335
266 Arg Gly Gln Val Leu Ser Pro Ser Gln Pro Ser Asp Pro Gly Val Leu
267           340           345           350
269 Glu Leu Pro Arg Val Gln Val Glu His Glu Gly Glu Phe Thr Cys His
270           355           360           365
272 Ala Arg His Pro Leu Gly Ser Gln His Val Ser Leu Ser Leu Ser Val
273           370           375           380
275 His Tyr Ser Pro Lys Leu Leu Gly Pro Ser Cys Ser Trp Glu Ala Glu
276 385           390           395           400
278 Gly Leu His Cys Ser Cys Ser Ser Gln Ala Ser Pro Ala Pro Ser Leu
279           405           410           415
281 Arg Trp Trp Leu Gly Glu Glu Leu Leu Glu Gly Asn Ser Ser Gln Asp
282           420           425           430
284 Ser Phe Glu Val Thr Pro Ser Ser Ala Gly Pro Trp Ala Asn Ser Ser
285           435           440           445
287 Leu Ser Leu His Gly Gly Leu Ser Ser Gly Leu Arg Leu Arg Cys Glu
288           450           455           460
290 Ala Trp Asn Val His Gly Ala Gln Ser Gly Ser Ile Leu Gln Leu Pro
291 465           470           475           480
293 Asp Lys Lys Gly Leu Ile Ser Thr Ala Phe Ser Asn Gly Ala Phe Leu
294           485           490           495
296 Gly Ile Gly Ile Thr Ala Leu Leu Phe Leu Cys Leu Ala Leu Ile Ile
297           500           505           510
299 Met Lys Ile Leu Pro Lys Arg Arg Thr Gln Thr Glu Thr Pro Arg Pro
300           515           520           525
302 Arg Phe Ser Arg His Ser Thr Ile Leu Asp Tyr Ile Asn Val Val Pro
303           530           535           540
305 Thr Ala Gly Pro Leu Ala Gln Lys Arg Asn Gln Lys Ala Thr Pro Asn
306 545           550           555           560
308 Ser Pro Arg Thr Pro Leu Pro Pro Gly Ala Pro Ser Pro Glu Ser Lys
309           565           570           575
311 Lys Asn Gln Lys Lys Gln Tyr Gln Leu Pro Ser Phe Pro Glu Pro Lys
312           580           585           590
314 Ser Ser Thr Gln Ala Pro Glu Ser Gln Glu Ser Gln Glu Glu Leu His
315           595           600           605
317 Tyr Ala Thr Leu Asn Phe Pro Gly Val Arg Pro Arg Pro Glu Ala Arg
318           610           615           620
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321 625           630           635
324 <210> SEQ ID NO: 5
325 <211> LENGTH: 58
326 <212> TYPE: PRT
327 <213> ORGANISM: Homo sapiens
329 <400> SEQUENCE: 5
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334           20           25           30

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VERIFICATION SUMMARY

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Input Set : A:\X-12652 Seqlist.txt

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L:10 M:270 C: Current Application Number differs, Replaced Application Number

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date